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DIVISION OF  
OIL, GAS & MINING

ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year Jan. 1983  
to Month/Year Jan. 1984

(To be submitted for each mining operation at the end of each calendar year to the Division at this address:)

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
4241 State Office Building  
Salt Lake City, Utah 84114

OPERATOR: AMERICAN GILSONITE CO. MINE NAME: Bonanza Operations

ADDRESS: Bonanza, Utah 84008

PERMIT NUMBER AND DATE OF PERMIT: ACT/047/010 (Pending)

REPRESENTATIVE: O. L. Fyock

SECTION(S): Refer to MRP TOWNSHIP(S):                      RANGE(S):                     

MINERAL(S) MINED: Gilsonite

STATE AND/OR FEDERAL MINERAL LEASE NUMBERS: Refer to MRP

SPECIAL USE PERMITS AND/OR RIGHTS-OF-WAY: Refer to MRP

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

<u>Disturbance</u>	<u>Acreage</u>
Pit /Mine Sites	32 -- active, inactive, abandoned
Roads	43 and predevelopment
Facilities	21.1
Waste Dumps	2.1
Other /Townsite/Boneyard	8

(b) Tabulation of acreage affected to date (by years).

<u>Date by Year</u>	<u>Acreage (Total)</u>
1975	7
1976	5
1977	0
1978	6
1979	1
1980	4
1981	3
1982	2
1983	4

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

#### SOIL TABULATION CHART

Area Affected (in mining sequence) (If more space is needed, please attach.)	<u>Area</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>etc.</u>
	E-31	I-15	LE-6	PW Claims
Acreage of Area	<u>SEE PAGE 2a</u>			
Depth of Topsoil Removal (inches)	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>
Depth of Topsoil Replacement (inches)*	<u>Not Applicable</u>			
Estimate of Topsoil Volume Salvaged (yd <sup>3</sup> or ac ft)	<u>400</u>	<u>540</u>	<u>800</u>	<u>540(ea)</u>
Volume Actually Salvaged (yd <sup>3</sup> or ac ft)	<u>400</u>	<u>540</u>	<u>800</u>	<u>540(ea)</u>
Volume Required for Reclamation (yd <sup>3</sup> or ac ft)	<u>800</u>	<u>800</u>	<u>800</u>	<u>3200</u>
Surplus or Deficit Volume (yd <sup>3</sup> or ac ft)	<u>410</u>	<u>260</u>	<u>0</u>	<u>1040</u>
Storage Status (short- or long-term)	<u>Long</u>	<u>Long</u>	<u>Long</u>	<u>Long</u>

Soil Tabulation Chart (continued)

Area Affected (in mining sequence)	Area			
	1	2	3	etc.
Storage Location	Refer to MRP			
Area Where Soil Has Been Used (if not stored)	Refer to MRP			
Running Total (all stockpiles) (yd <sup>3</sup> or ac ft)	Refer to MRP			
Short-term	Refer to MRP			
Long-term	Refer to MRP			

\*Of previously stripped area recently reclaimed.

(d) Tabulation of all (newly removed) out-of-pit spoil volumes, date of placement and illustration on a map.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>
NONE		

(e) Tabulation of quantity of commodity mined.

	<u>Commodity</u>	<u>Tonnage</u>
(Mined)	Gilsonite	65380
(Milled)	Gilsonite	65380

(f) Description of any new construction during the report period with illustration on a map, including, but not limited to:

1. Buildings and support facilities.

Warehouse attached to Processing Plant

2. Roads.

Pride of the West claims (see attached right of way permit)

3. Diversion ditches, collector ditches, interceptor ditches, etc.  
NONE

4. Culverts.  
NONE

5. Sediment ponds, containment ponds.  
NONE

6. Monitoring sites (vegetative, air quality, surface subsidence,  
surface water or ground water, etc.).  
NONE

7. Topsoil stockpiles,  
Refer to Soil Tabulation Chart

(g) Description of any environmental problem areas with a proposed plan  
for mitigation and illustration on a map, including, but not limited to:

1. Pit stability problems.  
Not Applicable

2. Subsidence.  
NONE

3. Accidental water discharge, dam failure, etc.  
NONE

4. Slumping, sliding or erosion.  
NONE

5. Revegetation problem areas.  
STUDIES UNDERWAY

6. Existence and location of unsuitable (toxic) overburden.  
NONE

RECLAMATION:

(a) Tabulation of the acreage reclaimed during the report period with illustration on a map, distinguishing between:

1. Backfilled, graded and contoured areas.

<u>Area</u>	<u>Acreage</u>
E-21	2
Complex Area	10
LE-3	1
Wagonhound 11	1

2. Topsoiled areas.

<u>Area</u>	<u>Acreage</u>
NONE	

3. Seeded areas.

<u>Area</u>	<u>Acreage</u>
Same as #1 Above	

4. Reseeded areas (areas previously seeded, then seeded again).

<u>Area</u>	<u>Acreage</u>
None	

(b) Tabulation of total acreage reclaimed (seeded with permanent seed mix) to date by years with illustration on an updated map:

<u>Year</u>	<u>Acreage</u>
1975	0
1976	5
1977	0
1978	0
1979	0
1980	0
1981	0
1982	0
1983	14
1984	

(c) Description of the reclamation procedures used during the report period, including:

1. Average depth of topsoil applied.  
Not Applicable

2. Type of seed (species) used for seeding during the report period.  
Western wheatgrass, Blue bunch wheatgrass, Russian wild rye, Indian Ricegrass, yellow sweet clover, alfalfa, cercer milkvetch, winterfat, sagebrush, rabbit brush

3. Date of seeding during the report period.

Spring

Fall

11-11-83 thru 11-18-83

4. Seeding procedures used.

(Hand broadcast or drilled or any other).

Hand Broadcast

Drilled

Cyclone Broadcast

5. Rate of seed application.

Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)

See attachment

6. Type and rate of fertilizer applied.

None

7. Type and rate of mulch applied.

Straw mulch 1000 lbs/acre (E-21)

8. Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.).

None

9. Revegetation test plot information.

(Cover, density, productivity, etc.)

Not applicable

10. Soil analysis results.

See MRP

(d) Description of results of previous revegetation efforts, including:  
(This should be done as applicable.)

1. Types (species) of seed that have germinated and are growing.

Crested Wheat, Shadscale

2. Types (species) of seed that are not growing successfully.

Unknown

3. Areas experiencing problems with weeds and weed types.

All areas halogeton, salasoli, kochia

4. Significant erosional problems.

None

5. Areas of unsuitable overburden on the surface as related to  
revegetation failure.

None

6. Procedures used or proposed to correct these problems.

None



7. Acreage and dates of release (upon inspection by the State) of revegetated areas.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>
NONE		

8. Results of soil analysis.


(e) Summarization of the reclamation costs incurred during the report period, including itemized costs for each operation (i.e., grading, topsoil replacement, seeding, etc.) and for each type of disturbance (i.e., spoil, haul roads, facilities removal, etc.) on a per acre basis.

	<u>Acres</u>	<u>Cost/Acre</u>
1. Grading	---	---
2. Backfilling	---	---
3. Contouring	14	300
4. Topsoil Replacement	---	---
5. Seeding	14	100
A. Seedbed Preparation	---	---
B. Mulch	2	50
C. Fertilizer	---	---
D. Seed	14	120
6. Other	---	---

BOND INFORMATION:

- A. An updated bond estimate should be included, if required in the Division's approval of the Mining and Reclamation Plan (MRP) or if changes to the MRP have occurred, including a detailed itemization of actual/estimated reclamation costs as outlined in the RECLAMATION section above. The date of the release of revegetated areas from further responsibility for a partial bond release, if applicable, should also be included.

	<u>Amount</u>	<u>Type</u>	<u>Date Posted</u>
Present Bond	-----	-----	-----

IN PROCESS OF ACCEPTANCE BY UDOGM

## APPENDIX I

### ANNUAL REPORT MAPS

1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.
2. Map sheets should be of a reasonable size, not to exceed 48 inches on a side.
3. Maps must have a title block with:
  - A. Map title.
  - B. Name and address of permittee.
  - C. Permit and amendment numbers.
  - D. Annual report period.
  - E. Scale, north arrow, contour interval, date of photography, etc.
4. All maps must show:
  - A. Legal subdivisions.
  - B. Permit area boundary clearly shown and labelled.
  - C. Amendment areas clearly shown and labelled.
  - D. Contour features.
5. The following features should all be clearly identified:
  - A. Topsoil stockpiles (numbered and with volumes).
  - B. Settling ponds and sediment control structures.
  - C. Haul roads.
  - D. Pits identified by location, name, number, etc.
  - E. Ramps (numbered).
  - F. Out-of-pit spoil dumps.
  - G. All waste disposal sites including, but not limited to:
    1. Landfill sites.
    2. Carbonaceous waste dumps.
  - H. Diversion ditches.
  - I. Monitoring sites.
6. All areas to be affected by mining and reclamation in the coming year should be outlined and labelled.

Increased disturbance, if any:

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Increased Bond Amount (attached reclamation estimate).

B. Bond release.

<u>Acres</u>	<u>Bond Amount Released</u>	<u>Date</u>
NONE		

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).
- (b) Other special conditions (status).

BONANZA RECLAMATION

SEED MIX

1983

		PLS/Drilled/Acre
Agropyron smithii	Western Wheatgrass	3.0
A. spicatum	Bluebunch Wheatgrass	1.0
Elymus junceus	Russian Wildrye	2.0
Oryzopsis hymenoides	Indian Ricegrass	2.0
Melilotus officinalis	Yellow Sweet Clover	0.5
Medicago sativa	Alfalfa	0.5
Astrogalus cicer	Cicer Milkvetch	1.0
Ceratoides lanata	Winterfat	1.0
Artemisia nova	Sagebrush	0.5
Chrysothamnus nauseosus	Rabbitbrush	0.5
		<hr/> 12.0

BROADCAST RATE IS 1.5 TIMES GREATER



**American Gilsonite Company**

A Chevron Company  
Bonanza, UT 84008 • Phone (801) 789-1921

Bonanza Mining Operations

To Pam  
File ACT/047/010

JIM

APR 02 1984

March 30, 1984

Mr. James W. Smith  
Utah Division of Oil, Gas and Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

Dear Mr. Smith:

Enclosed you will find the 1983 Annual Mining Progress Report for Chevron Resources, American Gilsonite, Bonanza Operations.

Should you have any questions concerning the report, please contact me at the above address and telephone number.

Sincerely,

O. L. Fyock  
Environmental Specialist

OLF:vjw

cc: R. F. Dewey

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